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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,256	01/23/2002	Tomoru Teruuchi	13740-004001	1933
2292 7	590 08/29/2005		EXAMINER	
BIRCH STEV PO BOX 747	VART KOLASCH & BI	NGUYEN, CHAU T		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
		•	2176	
		DATE MAILED: 08/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

¹ / ₂					
	Application No.	Applicant(s)			
/	10/052,256	TERUUCHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chau Nguyen	2176			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MOI accepted to the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>14 June 2005</u> .					
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) L Notice of 6) Cther:	Informal Patent Application (PTO-152)			

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DETAILED ACTION

1. Amendment, received on 06/14/2005, has been entered. Claims 1-20 are pending.

Response to Arguments

2. Applicant's arguments with respect to foreign priority have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer, European Patent Application No. 0586022 A1 and further in view of Serret-Avila et al. (Serret-Avila), US Patent No. 6,785,815.

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5. As to claims 1, 5 and 10, Fischer discloses an electronic signature method comprising the steps of:

analyzing a target document to generate a representation having a structure (page 20, lines 20-36: document package contains the cover letter 300, enclosed letter 302, spread sheet 304, graphics file 306);

generating an electronic signature from each structural element of the structure of the generated representation (page 20, lines 20-36: signature items A, C, E, and G represent the hash of the cover letter 300, enclosed letter 302, spread sheet 304, and graphics file 306, respectively); and

However, Fischer does not explicitly disclose concatenating the generated electronic signatures into a single signature corresponding to the structure of the generated representation. Serret-Avila discloses a data signal 300 (a stream of textual information) is partitioned into a sequence of data blocks or segments 304, each segment 304 having its own signature 306 (Serret-Avila, col. 11, lines 23-45 and Fig. 3). In addition, Serret-Avila discloses each data block or segment is hashed (assigned a unique key), and all the unique keys from each data block are concatenated, resulting the signature 810 (col. 18, lines 12-34). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Serret-Avila and Fischer to include concatenating the generated electronic signatures into a single signature corresponding to the structure of the generated representation. Serret-Avila suggests that the hash values (all unique keys) in hash concatenation are used to

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verify the authenticity of the corresponding blocks in the data signal, and also to control access to and use of digital/electronic data.

- 6. As to claims 2 and 6, Fischer and Serret-Avila disclose the step of setting a level of attachment of electronic signatures to structural elements of the document, whereby precision of reliability judgment of a document with an electronic signature can be varied depending on the level (Fischer, page 20, lines 20-36).
- 7. As to claims 3, 9, 11, 19 and 20, Fischer and Serret-Avila disclose wherein a rate of coincidence between the target document and the target document with an electronic signature is found from a rate of structural elements having authenticated electronic signatures to the whole structure (Fischer, page 20, lines 20-36).
- 8. As to claims 4, 7 and 12-15, Fischer and Serret-Avila disclose wherein said concatenating step includes inputting the generated electronic signatures in a row (Serret-Avila discloses a data signal 300 (a stream of textual information) is partitioned into a sequence of data blocks or segments 304, each segment 304 having its own signature 306 (Serret-Avila, col. 11, lines 23-45 and Fig. 3). In addition, Serret-Avila discloses each data block or segment is hashed (assigned a unique key), and all the unique keys from each data block are concatenated as shown in a row of H(B1), H(B2), H(B3),... H(Bn), resulting the signature 810 (col. 18, lines 12-34). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine

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the teachings of Serret-Avila and Fischer to include concatenating the generated

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electronic signatures in a row into a single signature corresponding to the structure of

the generated representation. Serret-Avila suggests that the hash values (all unique

keys) in hash concatenation are used to verify the authenticity of the corresponding

blocks in the data signal, and also to control access to and use of digital/electronic

data).

9. As to claims 8 and 16-18, Fischer and Serret-Avila disclose means for analyzing

the structure of the target document to verify the target document having the generated

electronic signature (Fischer, page 20, lines 20-36); and

means for analyzing each of the electronic signatures of the structural elements

of the target document (Fischer, page 20, lines 20-36).

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chau Nguyen whose telephone number is (571) 272-

4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30

pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Heather Herndon, can be reached at (571) 272-4136.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will

change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Chau Nguyen
Patent Examiner
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O Delegar & Soclera WILLIAM BASHORE PRIMARY EXAMINER

0/23/2005

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